

## **ABSTRACT**

**Topic:** Relation between chosen indicators of Wingate test and performance of racers in category K1 junior women slalom.

**Aim:** Determination of values of 30-s Wingate test function indicators in women water slalom (junior category). Assessment of the relation between selected indicators and the performance in the nomination races, comparison of the indicators with the overall rankings in the nomination races.

**Methods:** 30-s all out Wingate test on arm lever ergometer in UK FTVS laboratory. Usage of multidimensional statistical methods for correlation of Wingate test's chosen indicators with results of junior nomination races. Comparison of overall ranking in nomination races with total rates of functional indicators.

**Results:** Results show, that rates of chosen functional parameters of Wingate test seem to be a suitable indicator of anaerobic endurance in category K1. High relation between performance and rates of chosen functional parameters was not reliably proved.

**Core words:** Wingate test, functional indicators, anaerobic endurance, factors, performance, K1 junior women, correlation.